

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/578,410
Source: JFWP
Date Processed by STIC: 05/18/2006

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: 10/578, 410

CRF Edit Date: 05/10/2006
Edited by: DA

— Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

— Corrected the SEQ ID NO. Sequence numbers edited were:

— Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

~~Deleted:~~ invalid beginning/end-of-file text ; page numbers

— Inserted mandatory headings/numeric identifiers, specifically:

— Moved responses to same line as heading/numeric identifier, specifically:

— Other:



IFWO

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/578,410

DATE: 05/18/2006
TIME: 15:14:50

Input Set : A:\pto.da.txt
Output Set: N:\CRF4\05182006\J578410.raw

3 <110> APPLICANT: IMMUNEX CORPORATION
4 Carter, Paul J.
5 Zhou, Hongxing
7 <120> TITLE OF INVENTION: ANTIBODIES THAT BIND INTERLEUKIN-4 RECEPTOR
9 <130> FILE REFERENCE: 3492-WO
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/578,410
C--> 12 <141> CURRENT FILING DATE: 2006-05-05
14 <150> PRIOR APPLICATION NUMBER: 60/518,166
15 <151> PRIOR FILING DATE: 2003-11-07
17 <160> NUMBER OF SEQ ID NOS: 77
19 <170> SOFTWARE: PatentIn version 3.2
21 <210> SEQ ID NO: 1
22 <211> LENGTH: 2475
23 <212> TYPE: DNA
24 <213> ORGANISM: Homo sapien
27 <220> FEATURE:
28 <221> NAME/KEY: CDS
29 <222> LOCATION: (1)..(2475)
31 <400> SEQUENCE: 1
32 atg ggg tgg ctt tgc tct ggg ctc ctg ttc cct gtg agc tgc ctg gtc 48
33 Met Gly Trp Leu Cys Ser Gly Leu Leu Phe Pro Val Ser Cys Leu Val
34 1 5 10 15
36 ctg ctg cag gtg gca agc tct ggg aac atg aag gtc ttg cag gag ccc 96
37 Leu Leu Gln Val Ala Ser Ser Gly Asn Met Lys Val Leu Gln Glu Pro
38 20 25 30
40 acc tgc gtc tcc gac tac atg agc atc tct act tgc gag tgg aag atg 144
41 Thr Cys Val Ser Asp Tyr Met Ser Ile Ser Thr Cys Glu Trp Lys Met
42 35 40 45
44 aat ggt ccc acc aat tgc agc acc gag ctc cgc ctg ttg tac cag ctg 192
45 Asn Gly Pro Thr Asn Cys Ser Thr Glu Leu Arg Leu Leu Tyr Gln Leu
46 50 55 60
48 gtt ttt ctg ctc tcc gaa gcc cac acg tgt atc cct gag aac aac gga 240
49 Val Phe Leu Leu Ser Glu Ala His Thr Cys Ile Pro Glu Asn Asn Gly
50 65 70 75 80
52 ggc gcg ggg tgc gtg tgc cac ctg ctc atg gat gac gtg gtc agt gcg 288
53 Gly Ala Gly Cys Val Cys His Leu Leu Met Asp Asp Val Val Ser Ala
54 85 90 95
56 gat aac tat aca ctg gac ctg tgg gct ggg cag cag ctg ctg tgg aag 336
57 Asp Asn Tyr Thr Leu Asp Leu Trp Ala Gly Gln Gln Leu Leu Trp Lys
58 100 105 110
62 ggc tcc ttc aag ccc agc gag cat gtg aaa ccc agg gcc cca gga aac 384
63 Gly Ser Phe Lys Pro Ser Glu His Val Lys Pro Arg Ala Pro Gly Asn
64 115 120 125

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| | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| 66 | ctg | aca | gtt | cac | acc | aat | gtc | tcc | gac | act | ctg | ctg | acc | tgg | agc | 432 | |
| 67 | Leu | Thr | Val | His | Thr | Asn | Val | Ser | Asp | Thr | Leu | Leu | Leu | Thr | Trp | Ser | |
| 68 | 130 | | | | 135 | | | | | | 140 | | | | | | |
| 70 | aac | ccg | tat | ccc | cct | gac | aat | tac | ctg | tat | aat | cat | ctc | acc | tat | gca | 480 |
| 71 | Asn | Pro | Tyr | Pro | Pro | Asp | Asn | Tyr | Leu | Tyr | Asn | His | Leu | Thr | Tyr | Ala | |
| 72 | 145 | | | | 150 | | | | | 155 | | | 160 | | | | |
| 74 | gtc | aac | att | tgg | agt | gaa | aac | gac | ccg | gca | gat | ttc | aga | atc | tat | aac | 528 |
| 75 | Val | Asn | Ile | Trp | Ser | Glu | Asn | Asp | Pro | Ala | Asp | Phe | Arg | Ile | Tyr | Asn | |
| 76 | | 165 | | | | 170 | | | | | 175 | | | | | | |
| 78 | gtg | acc | tac | cta | gaa | ccc | tcc | ctc | cgc | atc | gca | gcc | agc | acc | ctg | aag | 576 |
| 79 | Val | Thr | Tyr | Leu | Glu | Pro | Ser | Leu | Arg | Ile | Ala | Ala | Ser | Thr | Leu | Lys | |
| 80 | | 180 | | | | 185 | | | | | 190 | | | | | | |
| 82 | tct | ggg | att | tcc | tac | agg | gca | cg | gtg | agg | gcc | tgg | gct | cag | tgc | tat | 624 |
| 83 | Ser | Gly | Ile | Ser | Tyr | Arg | Ala | Arg | Val | Arg | Ala | Trp | Ala | Gln | Cys | Tyr | |
| 84 | | 195 | | | | 200 | | | | | 205 | | | | | | |
| 86 | aac | acc | acc | tgg | agt | gag | tgg | agc | ccc | agc | acc | aag | tgg | cac | acc | tcc | 672 |
| 87 | Asn | Thr | Trp | Ser | Glu | Trp | Ser | Pro | Ser | Thr | Lys | Trp | His | Asn | Ser | | |
| 88 | | 210 | | | | 215 | | | | | 220 | | | | | | |
| 90 | tac | agg | gag | ccc | ttc | gag | cag | cac | ctc | ctg | gtc | gcc | gtc | agc | gtt | tcc | 720 |
| 91 | Tyr | Arg | Glu | Pro | Phe | Glu | Gln | His | Leu | Leu | Leu | Gly | Val | Ser | Val | Ser | |
| 92 | 225 | | 230 | | | | 235 | | | | 240 | | | | | | |
| 94 | tgc | att | gtc | atc | ctg | gcc | gtc | tgc | ctg | ttg | tgc | tat | gtc | agc | atc | acc | 768 |
| 95 | Cys | Ile | Val | Ile | Leu | Ala | Val | Cys | Leu | Leu | Cys | Tyr | Val | Ser | Ile | Thr | |
| 96 | | 245 | | | | 250 | | | | | 255 | | | | | | |
| 98 | aag | att | aag | aaa | gaa | tgg | tgg | gat | cag | att | ccc | aac | cca | gcc | cgc | agc | 816 |
| 99 | Lys | Ile | Lys | Lys | Glu | Trp | Trp | Asp | Gln | Ile | Pro | Asn | Pro | Ala | Arg | Ser | |
| 100 | | 260 | | | | 265 | | | | | 270 | | | | | | |
| 102 | cgc | ctc | gtg | gct | ata | ata | atc | cag | gat | gct | cag | ggg | tca | cag | tgg | gag | 864 |
| 103 | Arg | Leu | Val | Ala | Ile | Ile | Ile | Gln | Asp | Ala | Gln | Gly | Ser | Gln | Trp | Glu | |
| 104 | | 275 | | | | 280 | | | | | 285 | | | | | | |
| 106 | aag | cgg | tcc | cga | ggc | cag | gaa | cca | gcc | aag | tgc | cca | cac | tgg | aag | aat | 912 |
| 107 | Lys | Arg | Ser | Arg | Gly | Gln | Glu | Pro | Ala | Lys | Cys | Pro | His | Trp | Lys | Asn | |
| 108 | | 290 | | | | 295 | | | | | 300 | | | | | | |
| 110 | tgt | ctt | acc | aag | ctc | ttg | ccc | tgt | ttt | ctg | gag | cac | aac | atg | aaa | agg | 960 |
| 111 | Cys | Leu | Thr | Lys | Leu | Leu | Pro | Cys | Phe | Leu | Glu | His | Asn | Met | Lys | Arg | |
| 112 | 305 | | 310 | | | | 315 | | | | 320 | | | | | | |
| 114 | gat | gaa | gat | cct | cac | aag | gct | gcc | aaa | gag | atg | cct | ttc | cag | ggc | tct | 1008 |
| 115 | Asp | Glu | Asp | Pro | His | Lys | Ala | Ala | Lys | Glu | Met | Pro | Phe | Gln | Gly | Ser | |
| 116 | | 325 | | | | 330 | | | | | 335 | | | | | | |
| 118 | gga | aaa | tca | gca | tgg | tgc | cca | gtg | gag | atc | agc | aag | aca | gtc | ctc | tgg | 1056 |
| 119 | Gly | Lys | Ser | Ala | Trp | Cys | Pro | Val | Glu | Ile | Ser | Lys | Thr | Val | Leu | Trp | |
| 120 | | 340 | | | | 345 | | | | | 350 | | | | | | |
| 123 | cca | gag | agc | atc | agc | gtg | gtg | cga | tgt | gtg | gag | ttg | ttt | gag | gcc | ccg | 1104 |
| 124 | Pro | Glu | Ser | Ile | Ser | Val | Val | Arg | Cys | Val | Glu | Leu | Phe | Glu | Ala | Pro | |
| 125 | | 355 | | | | 360 | | | | | 365 | | | | | | |
| 127 | gtg | gag | tgt | gag | gag | gag | gag | gta | gag | gaa | aaa | ggg | agc | ttc | | 1152 | |
| 128 | Val | Glu | Cys | Glu | Glu | Glu | Glu | Val | Glu | Glu | Glu | Glu | Lys | Gly | Ser | Phe | |
| 129 | | 370 | | | | 375 | | | | | 380 | | | | | | |
| 131 | tgt | gca | tcg | cct | gag | agc | agc | agg | gat | gac | ttc | cag | gag | gga | agg | gag | 1200 |

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 132 | Cys | Ala | Ser | Pro | Glu | Ser | Ser | Arg | Asp | Asp | Phe | Gln | Glu | Gly | Arg | Glu | |
| 133 | 385 | | | 390 | | | 395 | | | | 400 | | | | | | |
| 135 | ggc | att | gtg | gcc | cg | cta | aca | gag | agc | ctg | ttc | ctg | gac | ctg | ctc | gga | 1248 |
| 136 | Gly | Ile | Val | Ala | Arg | Leu | Thr | Glu | Ser | Leu | Phe | Leu | Asp | Leu | Leu | Gly | |
| 137 | | | | | | | | | | 405 | | 410 | | | 415 | | |
| 139 | gag | gag | aat | ggg | ggc | ttt | tgc | cag | cag | gac | atg | ggg | gag | tca | tgc | ctt | 1296 |
| 140 | Glu | Glu | Asn | Gly | Gly | Phe | Cys | Gln | Gln | Asp | Met | Gly | Glu | Ser | Cys | Leu | |
| 141 | | | | | | | | | | 420 | | 425 | | | 430 | | |
| 143 | ctt | cca | cct | tcg | gga | agt | acg | agt | gct | cac | atg | ccc | tgg | gat | gag | ttc | 1344 |
| 144 | Leu | Pro | Pro | Ser | Gly | Ser | Thr | Ser | Ala | His | Met | Pro | Trp | Asp | Glu | Phe | |
| 145 | | | | | | | | | | 435 | | 440 | | | 445 | | |
| 147 | cca | agt | gca | ggg | ccc | aag | gag | gca | cct | ccc | tgg | ggc | aag | gag | cag | cct | 1392 |
| 148 | Pro | Ser | Ala | Gly | Pro | Lys | Glu | Ala | Pro | Pro | Trp | Gly | Lys | Glu | Gln | Pro | |
| 149 | | | | | | | | | | 450 | | 455 | | | 460 | | |
| 151 | ctc | cac | ctg | gag | cca | agt | cct | cct | gcc | agc | ccg | acc | cag | agt | cca | gac | 1440 |
| 152 | Leu | His | Leu | Glu | Pro | Ser | Pro | Pro | Ala | Ser | Pro | Thr | Gln | Ser | Pro | Asp | |
| 153 | | | | | | | | | | 465 | | 470 | | | 475 | | 480 |
| 155 | aac | ctg | act | tgc | aca | gag | acg | ccc | ctc | gtc | atc | gca | ggc | aac | cct | gct | 1488 |
| 156 | Asn | Leu | Thr | Cys | Thr | Glu | Thr | Pro | Leu | Val | Ile | Ala | Gly | Asn | Pro | Ala | |
| 157 | | | | | | | | | | 485 | | 490 | | | 495 | | |
| 159 | tac | cgc | agc | ttc | agc | aac | tcc | ctg | agc | cag | tca | ccg | tgt | ccc | aga | gag | 1536 |
| 160 | Tyr | Arg | Ser | Phe | Ser | Asn | Ser | Leu | Ser | Gln | Ser | Pro | Cys | Pro | Arg | Glu | |
| 161 | | | | | | | | | | 500 | | 505 | | | 510 | | |
| 163 | ctg | ggt | cca | gac | cca | ctg | ctg | gcc | aga | cac | ctg | gag | gaa | gta | gaa | ccc | 1584 |
| 164 | Leu | Gly | Pro | Asp | Pro | Leu | Leu | Ala | Arg | His | Leu | Glu | Glu | Val | Glu | Pro | |
| 165 | | | | | | | | | | 515 | | 520 | | | 525 | | |
| 167 | gag | atg | ccc | tgt | gtc | ccc | cag | ctc | tct | gag | cca | acc | act | gtg | ccc | caa | 1632 |
| 168 | Glu | Met | Pro | Cys | Val | Pro | Gln | Leu | Ser | Glu | Pro | Thr | Thr | Val | Pro | Gln | |
| 169 | | | | | | | | | | 530 | | 535 | | | 540 | | |
| 171 | cct | gag | cca | gaa | acc | tgg | gag | cag | atc | ctc | cg | cga | aat | gtc | ctc | cag | 1680 |
| 172 | Pro | Glu | Pro | Glu | Thr | Trp | Glu | Gln | Ile | Leu | Arg | Arg | Asn | Val | Leu | Gln | |
| 173 | | | | | | | | | | 545 | | 550 | | | 555 | | 560 |
| 175 | cat | ggg | gca | gct | gca | gcc | ccc | gtc | tcg | gcc | ccc | acc | agt | ggc | tat | cag | 1728 |
| 176 | His | Gly | Ala | Ala | Ala | Ala | Pro | Val | Ser | Ala | Pro | Thr | Ser | Gly | Tyr | Gln | |
| 177 | | | | | | | | | | 565 | | 570 | | | 575 | | |
| 179 | gag | ttt | gta | cat | gcg | gtg | gag | cag | ggt | ggc | acc | cag | gcc | agt | gcg | gtg | 1776 |
| 180 | Glu | Phe | Val | His | Ala | Val | Glu | Gln | Gly | Gly | Thr | Gln | Ala | Ser | Ala | Val | |
| 181 | | | | | | | | | | 580 | | 585 | | | 590 | | |
| 184 | gtg | ggc | ttg | ggt | ccc | cca | gga | gag | gct | ggt | tac | aag | gcc | ttc | tca | agc | 1824 |
| 185 | Val | Gly | Leu | Gly | Pro | Pro | Gly | Glu | Ala | Gly | Tyr | Lys | Ala | Phe | Ser | Ser | |
| 186 | | | | | | | | | | 595 | | 600 | | | 605 | | |
| 188 | ctg | ctt | gcc | agc | agt | gct | gtg | tcc | cca | gag | aaa | tgt | ggg | ttt | ggg | gct | 1872 |
| 189 | Leu | Leu | Ala | Ser | Ser | Ala | Val | Ser | Pro | Glu | Lys | Cys | Gly | Phe | Gly | Ala | |
| 190 | | | | | | | | | | 610 | | 615 | | | 620 | | |
| 192 | agc | agt | ggg | gaa | gag | ggg | tat | aag | cct | ttc | caa | gac | ctc | att | cct | ggc | 1920 |
| 193 | Ser | Ser | Gly | Glu | Glu | Gly | Tyr | Lys | Pro | Phe | Gln | Asp | Leu | Ile | Pro | Gly | |
| 194 | | | | | | | | | | 625 | | 630 | | | 635 | | 640 |
| 196 | tgc | cct | ggg | gac | cct | gcc | cca | gtc | cct | gtc | ccc | ttg | ttc | acc | ttt | gga | 1968 |
| 197 | Cys | Pro | Gly | Asp | Pro | Ala | Pro | Val | Pro | Val | Pro | Leu | Phe | Thr | Phe | Gly | |

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| | | | | |
|-----|---|-----|-----|------|
| 198 | 645 | 650 | 655 | |
| 200 | ctg gac agg gag cca cct cgc agt ccg cag agc tca cat ctc cca agc | | | 2016 |
| 201 | Leu Asp Arg Glu Pro Pro Arg Ser Pro Gln Ser Ser His Leu Pro Ser | | | |
| 202 | 660 | 665 | 670 | |
| 204 | agc tcc cca gag cac ctg ggt ctg gag ccg ggg gaa aag gta gag gac | | | 2064 |
| 205 | Ser Ser Pro Glu His Leu Gly Leu Glu Pro Gly Glu Lys Val Glu Asp | | | |
| 206 | 675 | 680 | 685 | |
| 208 | atg cca aag ccc cca ctt ccc cag gag cag gcc aca gac ccc ctt gtg | | | 2112 |
| 209 | Met Pro Lys Pro Pro Leu Pro Gln Glu Gln Ala Thr Asp Pro Leu Val | | | |
| 210 | 690 | 695 | 700 | |
| 212 | gac agc ctg ggc agt ggc att gtc tac tca gcc ctt acc tgc cac ctg | | | 2160 |
| 213 | Asp Ser Leu Gly Ser Gly Ile Val Tyr Ser Ala Leu Thr Cys His Leu | | | |
| 214 | 705 | 710 | 715 | 720 |
| 216 | tgc ggc cac ctg aaa cag tgt cat ggc cag gag gat ggt ggc cag acc | | | 2208 |
| 217 | Cys Gly His Leu Lys Gln Cys His Gly Gln Glu Asp Gly Gly Gln Thr | | | |
| 218 | 725 | 730 | 735 | |
| 220 | cct gtc atg gcc agt cct tgc tgt ggc tgc tgc tgt gga gac agg tcc | | | 2256 |
| 221 | Pro Val Met Ala Ser Pro Cys Cys Gly Cys Cys Gly Asp Arg Ser | | | |
| 222 | 740 | 745 | 750 | |
| 224 | tgc ccc cct aca acc ccc ctg agg gcc cca gac ccc tct cca ggt ggg | | | 2304 |
| 225 | Ser Pro Pro Thr Thr Pro Leu Arg Ala Pro Asp Pro Ser Pro Gly Gly | | | |
| 226 | 755 | 760 | 765 | |
| 228 | gtt cca ctg gag gcc agt ctg tgt ccg gcc tcc ctg gca ccc tcg ggc | | | 2352 |
| 229 | Val Pro Leu Glu Ala Ser Leu Cys Pro Ala Ser Leu Ala Pro Ser Gly | | | |
| 230 | 770 | 775 | 780 | |
| 232 | atc tca gag aag agt aaa tcc tca tca tcc ttc cat cct gcc cct ggc | | | 2400 |
| 233 | Ile Ser Glu Lys Ser Lys Ser Ser Ser Phe His Pro Ala Pro Gly | | | |
| 234 | 785 | 790 | 795 | 800 |
| 236 | aat gct cag agc tca agc cag acc ccc aaa atc gtg aac ttt gtc tcc | | | 2448 |
| 237 | Asn Ala Gln Ser Ser Ser Gln Thr Pro Lys Ile Val Asn Phe Val Ser | | | |
| 238 | 805 | 810 | 815 | |
| 240 | gtg gga ccc aca tac atg agg gtc tct | | | 2475 |
| 241 | Val Gly Pro Thr Tyr Met Arg Val Ser | | | |
| 242 | 820 | 825 | | |
| 245 | <210> SEQ ID NO: 2 | | | |
| 246 | <211> LENGTH: 825 | | | |
| 247 | <212> TYPE: PRT | | | |
| 248 | <213> ORGANISM: Homo sapien | | | |
| 250 | <400> SEQUENCE: 2 | | | |
| 252 | Met Gly Trp Leu Cys Ser Gly Leu Leu Phe Pro Val Ser Cys Leu Val | | | |
| 253 | 1 | 5 | 10 | 15 |
| 256 | Leu Leu Gln Val Ala Ser Ser Gly Asn Met Lys Val Leu Gln Glu Pro | | | |
| 257 | 20 | 25 | 30 | |
| 260 | Thr Cys Val Ser Asp Tyr Met Ser Ile Ser Thr Cys Glu Trp Lys Met | | | |
| 261 | 35 | 40 | 45 | |
| 264 | Asn Gly Pro Thr Asn Cys Ser Thr Glu Leu Arg Leu Leu Tyr Gln Leu | | | |
| 265 | 50 | 55 | 60 | |
| 268 | Val Phe Leu Leu Ser Glu Ala His Thr Cys Ile Pro Glu Asn Asn Gly | | | |
| 269 | 65 | 70 | 75 | 80 |

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272 Gly Ala Gly Cys Val Cys His Leu Leu Met Asp Asp Val Val Ser Ala
 273 85 90 95
 276 Asp Asn Tyr Thr Leu Asp Leu Trp Ala Gly Gln Gln Leu Leu Trp Lys
 277 100 105 110
 280 Gly Ser Phe Lys Pro Ser Glu His Val Lys Pro Arg Ala Pro Gly Asn
 281 115 120 125
 284 Leu Thr Val His Thr Asn Val Ser Asp Thr Leu Leu Leu Thr Trp Ser
 285 130 135 140
 288 Asn Pro Tyr Pro Pro Asp Asn Tyr Leu Tyr Asn His Leu Thr Tyr Ala
 289 145 150 155 160
 292 Val Asn Ile Trp Ser Glu Asn Asp Pro Ala Asp Phe Arg Ile Tyr Asn
 293 165 170 175
 296 Val Thr Tyr Leu Glu Pro Ser Leu Arg Ile Ala Ala Ser Thr Leu Lys
 297 180 185 190
 300 Ser Gly Ile Ser Tyr Arg Ala Arg Val Arg Ala Trp Ala Gln Cys Tyr
 301 195 200 205
 304 Asn Thr Thr Trp Ser Glu Trp Ser Pro Ser Thr Lys Trp His Asn Ser
 305 210 215 220
 308 Tyr Arg Glu Pro Phe Glu Gln His Leu Leu Leu Gly Val Ser Val Ser
 309 225 230 235 240
 312 Cys Ile Val Ile Leu Ala Val Cys Leu Leu Cys Tyr Val Ser Ile Thr
 313 245 250 255
 316 Lys Ile Lys Lys Glu Trp Trp Asp Gln Ile Pro Asn Pro Ala Arg Ser
 317 260 265 270
 320 Arg Leu Val Ala Ile Ile Ile Gln Asp Ala Gln Gly Ser Gln Trp Glu
 321 275 280 285
 324 Lys Arg Ser Arg Gly Gln Glu Pro Ala Lys Cys Pro His Trp Lys Asn
 325 290 295 300
 328 Cys Leu Thr Lys Leu Leu Pro Cys Phe Leu Glu His Asn Met Lys Arg
 329 305 310 315 320
 332 Asp Glu Asp Pro His Lys Ala Ala Lys Glu Met Pro Phe Gln Gly Ser
 333 325 330 335
 336 Gly Lys Ser Ala Trp Cys Pro Val Glu Ile Ser Lys Thr Val Leu Trp
 337 340 345 350
 340 Pro Glu Ser Ile Ser Val Val Arg Cys Val Glu Leu Phe Glu Ala Pro
 341 355 360 365
 344 Val Glu Cys Glu Glu Glu Glu Val Glu Glu Lys Gly Ser Phe
 345 370 375 380
 348 Cys Ala Ser Pro Glu Ser Ser Arg Asp Asp Phe Gln Glu Gly Arg Glu
 349 385 390 395 400
 352 Gly Ile Val Ala Arg Leu Thr Glu Ser Leu Phe Leu Asp Leu Leu Gly
 353 405 410 415
 356 Glu Glu Asn Gly Gly Phe Cys Gln Gln Asp Met Gly Glu Ser Cys Leu
 357 420 425 430
 360 Leu Pro Pro Ser Gly Ser Thr Ser Ala His Met Pro Trp Asp Glu Phe
 361 435 440 445
 364 Pro Ser Ala Gly Pro Lys Glu Ala Pro Pro Trp Gly Lys Glu Gln Pro
 365 450 455 460
 368 Leu His Leu Glu Pro Ser Pro Pro Ala Ser Pro Thr Gln Ser Pro Asp

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 05/18/2006
PATENT APPLICATION: US/10/578,410 TIME: 15:14:51

Input Set : A:\pto.da.txt
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:70; N Pos. 21,24

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29

Seq#:30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53

Seg#: 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76

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L:11 M:270 C: Current Application Number differs, Replaced Current Application Number

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:3401 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70 after pos.:0

**Raw Sequence Listing before editing,
for reference only**



IFW

RAW SEQUENCE LISTING DATE: 05/17/2006
 PATENT APPLICATION: US/10/578,410 TIME: 10:39:12

Input Set : A:\3492-WO sequence listing as filed 11.4.04.txt
 Output Set: N:\CRF4\05172006\J578410.raw

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 5 Zhou, Hongxing
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 15 <151> PRIOR FILING DATE: 2003-11-07
 17 <160> NUMBER OF SEQ ID NOS: 77
 19 <170> SOFTWARE: PatentIn version 3.2

ERRORED SEQUENCES

3482 <210> SEQ ID NO: 77
 3483 <211> LENGTH: 327
 3484 <212> TYPE: PRT
 3485 <213> ORGANISM: Homo sapiens
 3487 <400> SEQUENCE: 77
 3489 Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Cys Ser Arg
 3490 1 5 10 15
 3493 Ser Thr Ser Glu Ser Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr
 3494 20 25 30
 3497 Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
 3498 35 40 45
 3501 Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
 3502 50 55 60
 3505 Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Lys Thr
 3506 65 70 75 80
 3509 Tyr Thr Cys Asn Val Asp His Lys Pro Ser Asn Thr Lys Val Asp Lys
 3510 85 90 95
 3513 Arg Val Glu Ser Lys Tyr Gly Pro Pro Cys Pro Ser Cys Pro Ala Pro
 3514 100 105 110
 3517 Glu Phe Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys
 3518 115 120 125
 3521 Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val
 3522 130 135 140
 3525 Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp
 3526 145 150 155 160
 3529 Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe
 3530 165 170 175
 3533 Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp

Does Not Comply
 Corrected Diskette Needed

(Pg-2)

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/578,410

DATE: 05/17/2006
TIME: 10:39:13

Input Set : A:\3492-WO sequence listing as filed 11.4.04.txt
Output Set: N:\CRF4\05172006\J578410.raw

3534 180 185 190
3537 Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu
3538 195 200 205
3541 Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg
3542 210 215 220
3545 Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu Met Thr Lys
3546 225 230 235 240
3549 Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp
3550 245 250 255
3553 Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys
3554 260 265 270
3557 Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser
3558 275 280 285
3561 Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn Val Phe Ser
3562 290 295 300
3565 Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser
3566 305 310 315 320
3569 Leu Ser Leu Ser Leu Gly Lys
3570 325

E--> 3573 59
E--> 3575 Express Mail No. EV438677738US

deleted

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 05/17/2006
PATENT APPLICATION: US/10/578,410 TIME: 10:39:14

Input Set : A:\3492-WO sequence listing as filed 11.4.04.txt
Output Set: N:\CRF4\05172006\J578410.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#: 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29
Seq#: 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53
Seq#: 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/578,410

DATE: 05/17/2006

TIME: 10:39:14

Input Set : A:\3492-WO sequence listing as filed 11.4.04.txt
Output Set: N:\CRF4\05172006\J578410.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application Number
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:3401 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70 after pos.:0
L:3573 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:77
L:3575 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:3575 M:330 E: (2) Invalid Amino Acid Designator, NUMBER OF INVALID KEYS:4
L:3575 M:252 E: No. of Seq. differs, <211> LENGTH:Input:327 Found:331 SEQ:77